

Green Dot Laser Module

Model Number	VLM-520-61 series (TTL)	VLM-520-62T series (TTL)	VLM-520-71 series (TTL)	VLM-520-72T series (TTL)
Specifications				
Dimensions	Ø10 x 40 mm	Ø10 x 40 mm	M12 x 68 mm	M12 x 68 mm
Operating voltage	3~6 VDC	3~6 VDC	10~36 VDC	10~36 VDC
Operating current	Less than 60mA / 150mA	Less than 80mA / 100mA / 150mA	Less than 20mA at 24V	Less than 30mA at 24V
Laser power output	Less than 0.39mW / 1mW	0.2±0.1mW / 0.8±0.1mW / 3.5±0.5mW	Less than 0.39mW / 1mW	0.2±0.1mW / 0.8±0.1mW / 3.5±0.5mW
Laser class	Class 1 / Class 2	Class 1 / Class 2 / Class 3R	Class 1 / Class 2	Class 1 / Class 2 / Class 3R
Wavelength	515~530nm	515~530nm	515~530nm	515~530nm
Collimating lens	Glass lens	Glass lens	Glass lens	Glass lens
Output aperture	0.6mm	2mm	0.6mm	2mm
Beam shape	Circular	Circular	Circular	Circular
Spot size	Less than 1mm at 0~50cm Less than 2mm at 50~90cm	Less than Ø3mm at 0~5M	Less than 1mm at 0~50cm Less than 2mm at 50~90cm	Less than Ø3mm at 0~5M
Divergence (Full Angle)	Less than 0.4 mRad	Less than 0.4 mRad	Less than 0.4 mRad	Less than 0.4 mRad
Beam alignment	Less than 3°	Less than 3°	Less than 3°	Less than 3°
Operating temp. range	-20°C ~+60°C	-20°C ~+60°C	-20°C ~+60°C	-20°C ~+60°C
Storage temp. range	-20°C ~+85°C	-20°C ~+85°C	-20°C ~+85°C	-20°C ~+85°C
Housing material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Potential of housing	Insulated	Insulated	Insulated	Insulated
Electrostatic discharge (ESD)	30KV / Arc protection	30KV / Arc protection	30KV / Arc protection	30KV / Arc protection
Moisture sensitivity level (MSL)	Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.	Level 1 - acc to JEDEC J-STD-020E.
Wire type	2464 3-WIRE CABLE 26 AWG	2464 3-WIRE CABLE 26 AWG	2464 3-WIRE CABLE 26 AWG	2464 3-WIRE CABLE 26 AWG
Cable length	330±30mm	330±30mm	330±30mm	330±30mm
Mean time to failure (MTTF) 25°C	10000hrs	10000hrs	10000hrs	10000hrs
Application	Industrial alignment with TTL modulation function	Industrial alignment with TTL modulation function	Industrial alignment with TTL modulation function	Industrial alignment with TTL modulation function
Suggestion work distance	0~1 meters / 0~3 feet	0~5 meters / 0~16 feet	0~1 meters / 0~3 feet	0~5 meters / 0~16 feet